

CLEAN VERSION OF AMENDMENTS

In the Specification:

Replace the paragraph starting on page 1, line 9, with:

a This application is a continuation of copending U.S. Patent Application No. 09/590,856, filed June 8, 2000, <sup>new U.S. PAT. NO. 6,371,116</sup> which is a continuation of Application No. 08/879,296, filed June 18, 1997, <sup>new U.S. PAT. NO. 6,078,308</sup> which is a continuation-in-part of patent applications no. 08/571,606, filed December 13 1995, <sup>new U.S. PAT. NO. 5,825,308</sup> and no. 08/756,745, filed November 26 1996, <sup>new U.S. PAT. NO. 6,219,032</sup> assigned to the assignee of this present application, and all of which are incorporated by reference herein in their entireties.

In the Claims:

All pending claims are reproduced below for the convenience of the Examiner. Claims that have been changed by this amendment are marked as "amended." No marked up version of the claims is presented since all of the claims are new.

Please cancel claims 1-43 without prejudice.

Please add the following claims:

Sub B1  
a2 44. (new) A method for interfacing an interface device with a host computer to select a function in a graphical user interface implemented on said host computer, the host computer in communication with the interface device, the method comprising:

causing an update of a display of a cursor within said graphical user interface using sensor information received from said interface device, said sensor information representing motion of at least a portion of said interface device;

enabling a determination of whether said cursor engages a graphical target displayed within said graphical user interface;

enabling a determination of a speed of said engagement of said cursor with said graphical target; and

causing a tactile feedback command to be provided, based upon said speed of said engagement, to said interface device to cause a tactile sensation to be output to a user when said cursor engages said graphical target.

45. (new) A method as recited in claim 44 wherein if said speed of engagement is above a predetermined threshold speed, a tactile sensation is not output to said user, and if said speed of engagement is below said predetermined threshold speed, a tactile sensation will be output to said user.

46. (new) A method as recited in claim 45 wherein different threshold speeds are associated with different tactile sensations.

47. (new) A method as recited in claim 44 further comprising determining when said cursor has moved to or past a trigger location positioned in said graphical target.

48. (new) A method as recited in claim 47 further comprising selecting a function within said graphical user interface when said cursor has moved to or past said trigger location.

49. (new) A method as recited in claim 48 wherein said selecting only is performed when said engagement speed is below a predetermined threshold speed.

50. (new) A method as recited in claim 44 wherein said graphical target is a menu element displayed in said graphical environment.

51. (new) A method as recited in claim 44 wherein said graphical target is a graphical button.

52. (new) A method as recited in claim 44 further comprising changing at least one displayed characteristic of said graphical target to indicate that said function has been selected.

53. (new) A method as recited in claim 44 wherein said at least a portion of said interface device comprises a user object.

54. (new) A method as recited in claim 53 wherein said tactile sensation output to said user includes a force on said user object.

55. (new) A method as recited in claim 44 wherein the tactile sensation output to said user comprises one or more of a vibration, a texture, and a jolt.

56. (new) A method for interfacing an interface device with a host computer to select a function in a graphical user interface implemented on said host computer, the host computer in communication with the interface device, the method comprising:

causing an update of a display of a cursor within said graphical user interface using sensor information received from said interface device, said sensor information representing motion of at least a portion of said interface device;

enabling a determination of whether said cursor engages a graphical target displayed within said graphical user interface;

causing a tactile feedback command to be provided to said interface device to cause a tactile sensation to be output to a user when said cursor engages said graphical target;

enabling a determination of whether said cursor has moved to or past a trigger location positioned in said graphical target;

when said cursor has moved to or past said trigger location, enabling said selecting of said function within said graphical user interface; and

causing said tactile sensation to change indicate to said user that said function has been selected.

57. (new) A method as recited in claim 56 wherein said cursor is determined to have moved to said trigger position when said cursor has moved a distance past a point of engagement corresponding to a predetermined distance.

58. (new) A method as recited in claim 56 wherein said graphical target is modified visually when said cursor reaches said trigger position.

59. (new) A method as recited in claim 56 wherein said graphical target is a static selection surface and said cursor is maintained displayed at said original position of engagement while said at least a portion of said interface device moves in a direction corresponding to a direction into said graphical target.

60. (new) A method as recited in claim 56 wherein said graphical target is a menu element displayed in said graphical environment.

61. (new) A method as recited in claim 56 wherein said graphical target is a graphical button displayed in a web page graphical environment.

62. (new) A method as recited in claim 56 further comprising changing at least one displayed characteristic of said graphical target after said trigger location has been exceeded to indicate to said user that said function has been selected.

63. (new) A method as recited in claim 56 wherein said at least a portion of said interface device comprises a user object.

64. (new) A method as recited in claim 63 wherein said tactile sensation output to said user comprises a force on said user object.

65. (new) A method as recited in claim 56 wherein the tactile sensation output to said user comprises one or more of a vibration, a texture, and a jolt.

66. (new) A computer readable medium including program instructions for interfacing an interface device with a host computer and causing a function in a graphical user interface implemented on said host computer to be selected, the host computer in communication with the interface device, the program instructions performing steps comprising:

causing an update of a display of a cursor within said graphical user interface using sensor information received from said interface device, said sensor information representing motion of at least a portion of said interface device;

enabling a determination of whether said cursor engages a graphical target displayed within said graphical user interface;

causing a tactile feedback command to be provided to said interface device to cause a tactile sensation to be output to a user when said cursor engages said graphical target;

enabling a determination of whether said cursor has moved to or past a trigger location positioned in said graphical target;

when said cursor has moved to or past said trigger location, enabling said selecting of said function within said graphical user interface; and

causing said tactile sensation to change indicate to said user that said function has been selected.